

Claims:

1. An at least five-layered, biaxially oriented, shrinkable and sealable tubular film for packaging and wrapping meat, meat with bones, or pasty foodstuffs, characterized in that the tubular film consists of an inner layer of at least one heat-sealable polyolefin and/or modified polyolefin, a core layer of polyolefin, and an outer layer of at least one polyamide, as well as two intermediate layers arranged between the inner layer and the core layer and between the core layer and the outer layer, respectively.
2. The tubular film according to claim 1, characterized in that the inner layer consists of homopolymers of ethylene or propylene and/or copolymers of linear α -olefins having 2 to 8 C atoms.
3. The tubular film according to claim 2, characterized in that the polyolefins of the inner layer preferably consist of linear low-density polyethylene, high-density polyethylene, polypropylene homopolymers, polypropylene block copolymers and polypropylene random copolymers.
4. The tubular film according to claim 3, characterized in that the inner layer consists of at least one polyethylene produced using a metallocene catalyst.
5. The tubular film according to claim 1, characterized in that the inner layer includes modified polyolefins, said modified polyolefins being copolymers of ethylene or propylene and optionally further linear α -olefins having 3 to 8 C atoms with α,β -unsaturated carboxylic acids, preferably acrylic acid, methacrylic acid and/or metal salts thereof and/or alkyl esters thereof, and/or graft copolymers of α,β -unsaturated dicarboxylic acids, preferably maleic acid, fumaric acid, itaconic acid, and anhydrides, esters, amides or imides thereof on polyolefins or polyolefin copolymers.

6. The tubular film according to claim 1, characterized in that the inner layer consists of a polyolefin and/or modified polyolefin with a melting point of 70-130°C, a density of 0.86-0.98 g/cm³ and a melt index of 0.2-15 g/10 min.
7. The tubular film according to any of the preceding claims, characterized in that the core layer consists of homopolymers of ethylene or propylene and/or copolymers of linear α -olefins having 2 to 8 C atoms.
8. The tubular film according to claim 7, characterized in that the polyolefins of the core layer preferably consist of linear low-density polyethylene, high-density polyethylene, polypropylene homopolymers, polypropylene block copolymers and polypropylene random copolymers.
9. The tubular film according to any of the preceding claims, characterized in that the intermediate layers consist of polyolefins and/or modified polyolefins.
10. The tubular film according to claim 9, characterized in that the polyolefins are homopolymers of ethylene or propylene and/or copolymers of linear α -olefins having 2 to 8 C atoms.
11. The tubular film according to claim 9, characterized in that the modified polyolefins are copolymers of ethylene or propylene and optionally further linear α -olefins having 3 to 8 C atoms with α,β -unsaturated carboxylic acids, preferably acrylic acid, methacrylic acid and/or metal salts thereof and/or alkyl esters thereof, and/or graft copolymers of α,β -unsaturated dicarboxylic acids, preferably maleic acid, fumaric acid, itaconic acid, or anhydrides, esters, amides or imides thereof on polyolefins or polyolefin copolymers.
12. The tubular film according to claim 1, characterized in that the outer layer consists of a homopolyamide and/or copolyamide produced from monomers selected from the group of caprolactam, laurilactam, ω -aminoundecanoic acid, adipic acid, azelaic acid, sebacic acid, decanedicarboxylic acid, dodecanedicarboxylic acid, tere-

phthalic acid, isophthalic acid, tetramethylenediamine, pentamethylenediamine, hexamethylenediamine, octamethylenediamine, and xylylenediamine.

13. The tubular film according to any of the preceding claims, characterized in that the tubular film has been subjected to coextrusion and biaxial stretching.
14. The tubular film according to any of the preceding claims, characterized in that the tubular film has been subjected to coextrusion, biaxial stretching and subsequent heat-setting.
15. The tubular film according to any of the preceding claims, characterized in that the tubular film has a wall thickness of from 30 to 100 μm , preferably from 40 to 90 μm .
16. Use of the tubular film according to any of claims 1 to 15 for packaging and wrapping meat, meat with bones, or pasty foodstuffs.
17. A bag, characterized in that said bag is produced from a tubular film according to any of claims 1 to 15 by welding or sealing the inner layer on itself.
18. Use of the bag produced according to claim 17 for packaging and wrapping meat, meat with bones, or pasty foodstuffs.